

5                   **ERROR ACCUMULATION DITHERING OF IMAGE DATA**

**ABSTRACT OF THE DISCLOSURE**

Error accumulation dithering is used to generate images of lower color resolution from input data of higher color resolution. A target color is received at high resolution for a current pixel of the image. The target color is intermediate between a first color and a second  
10   color at a low color resolution. One of the first color and the second color is selected as a final pixel color, based on whether an accumulated error determined from previous pixels is above or below a threshold amount. After selecting the final pixel color, an updated accumulated error is provided to the next pixel.

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